TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 915 MHz SMD 1.1X0.9 mm (BW=26MHz)

TST Part No.: TA2294B

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____Anne Chen_____

Approved by:_____Andy Yu_____

Date:_____2021/08/02_____

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.

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SAW Filter 915 MHz

MODEL NO.:TA2294B REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 3 (MSL 3)

RoHS Compliant

Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

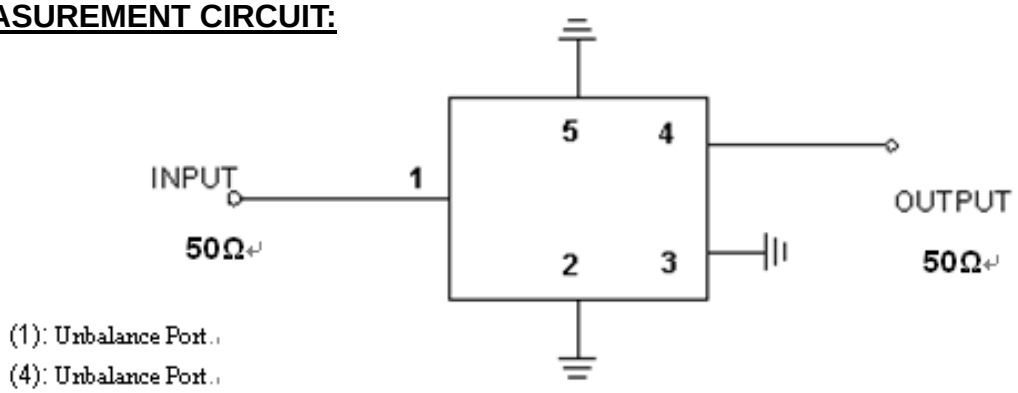
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single ended) : Zs = 50 Ω

Terminating load impedance (single ended) : Z_L = 50 Ω

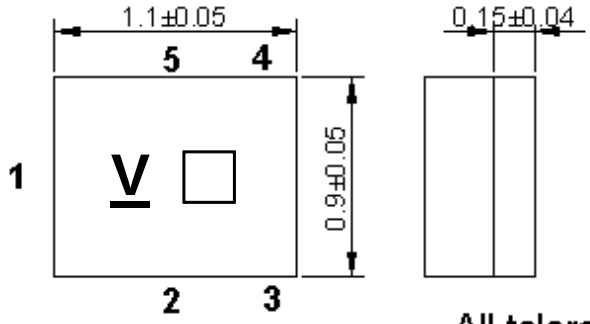
Item	Unit	Min.	Typ.	Max.	Note
Center Frequency **Fc**	MHz	-	915	-	-
Insertion Loss (902 ~ 928 MHz)	dB	-	3.1	3.6	-
Amplitude ripple (902 ~ 928 MHz)	dB	-	0.7	2.0	-
VSWR (902 ~ 928 MHz)		-	2.0	2.6	-
Attenuation (reference level from 0 dB)					
10 ~ 820 MHz	dB	33	54	-	-
820 ~ 884 MHz	dB	26	45	-	-
950 ~ 960 MHz	dB	15	27	-	-
1760 ~ 1830 MHz	dB	40	49	-	-
2640 ~ 2745 MHz	dB	30	41		
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

C. MEASUREMENT CIRCUIT:

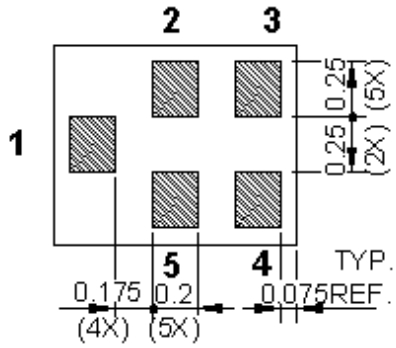


(1): Unbalance Port
(4): Unbalance Port
Others: Ground

D.OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm



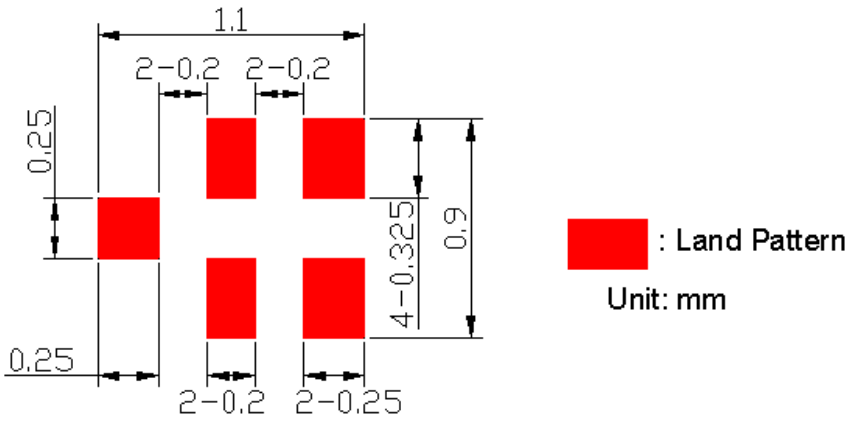
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

V : Series Number

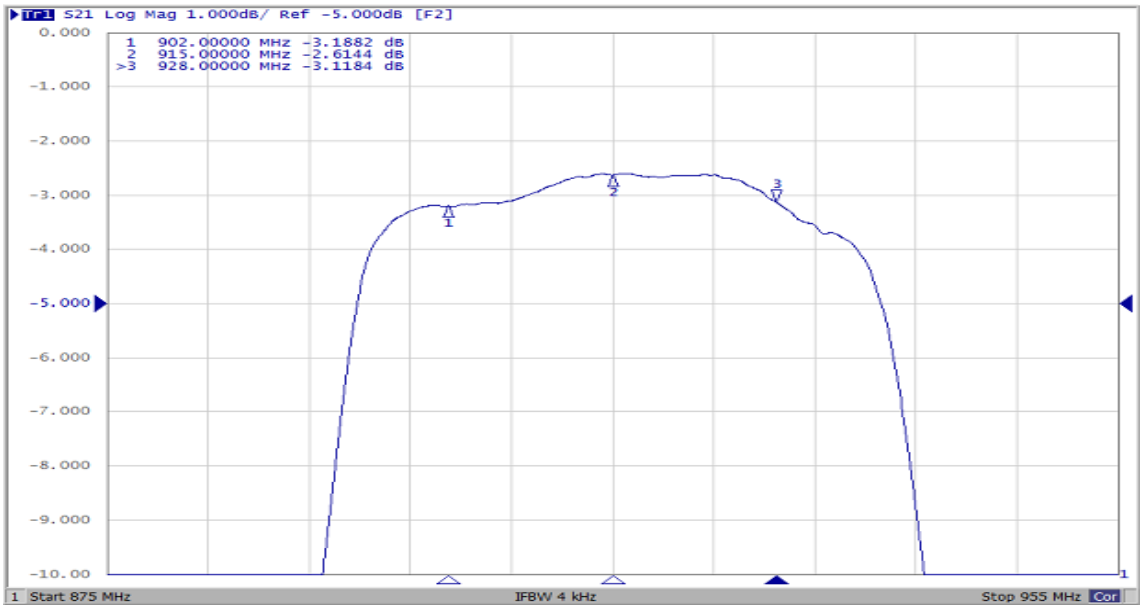
☐ : Year/Month Code .Follow the table. (8-year cycle)

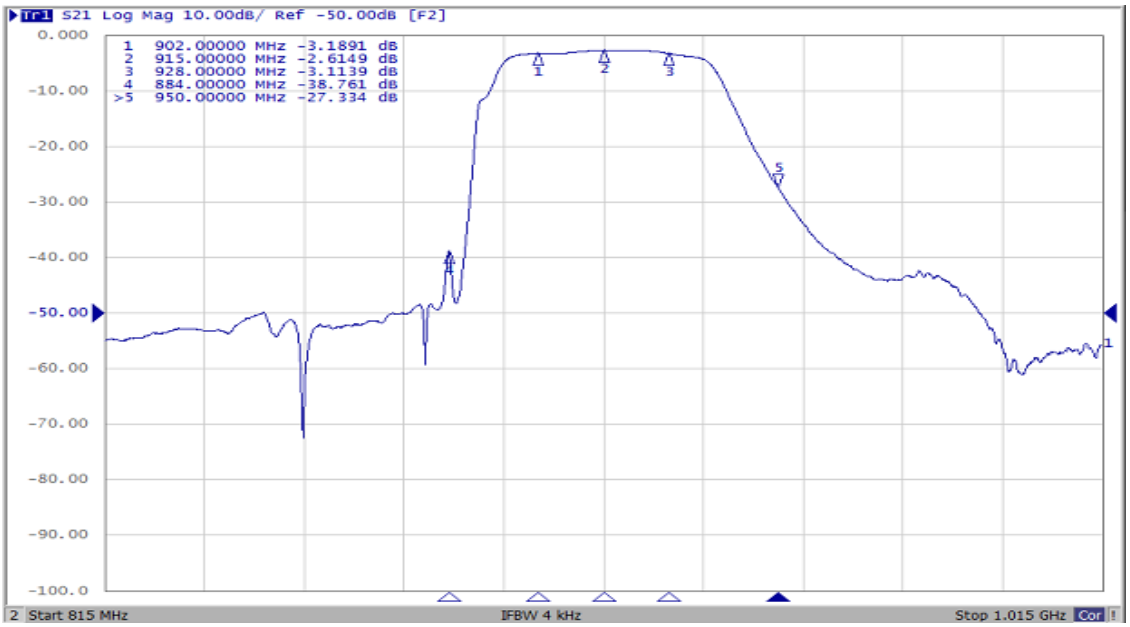
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2022	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2023	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
22024	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2025	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2026	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2027	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2028	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

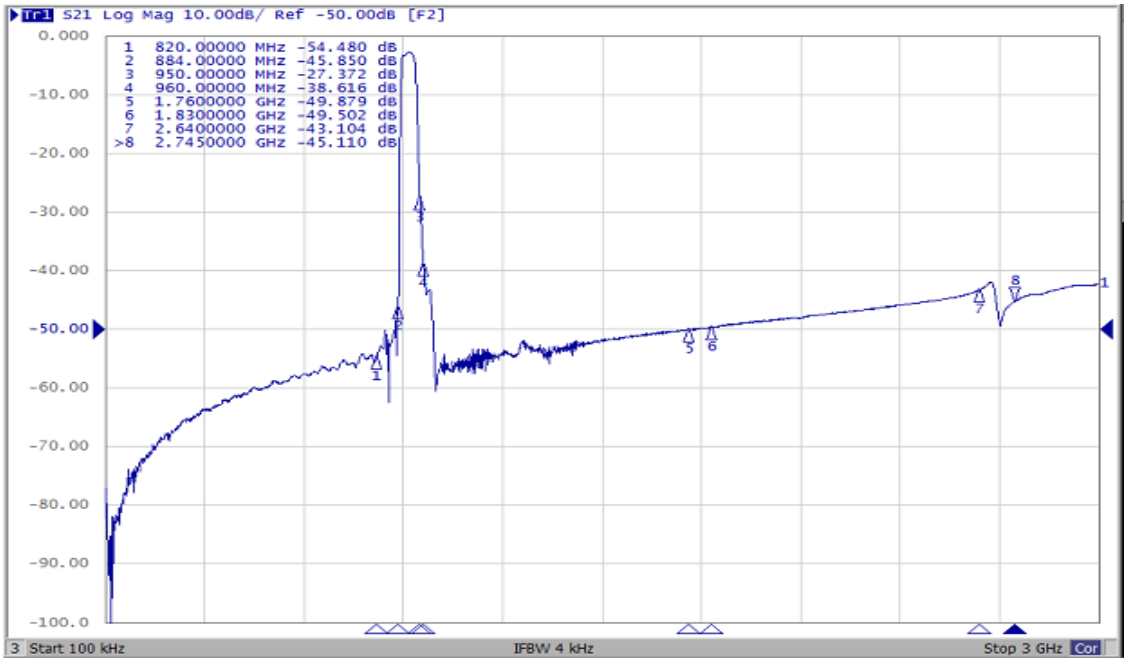
E. PCB Footprint:



F. Frequency Characteristics :

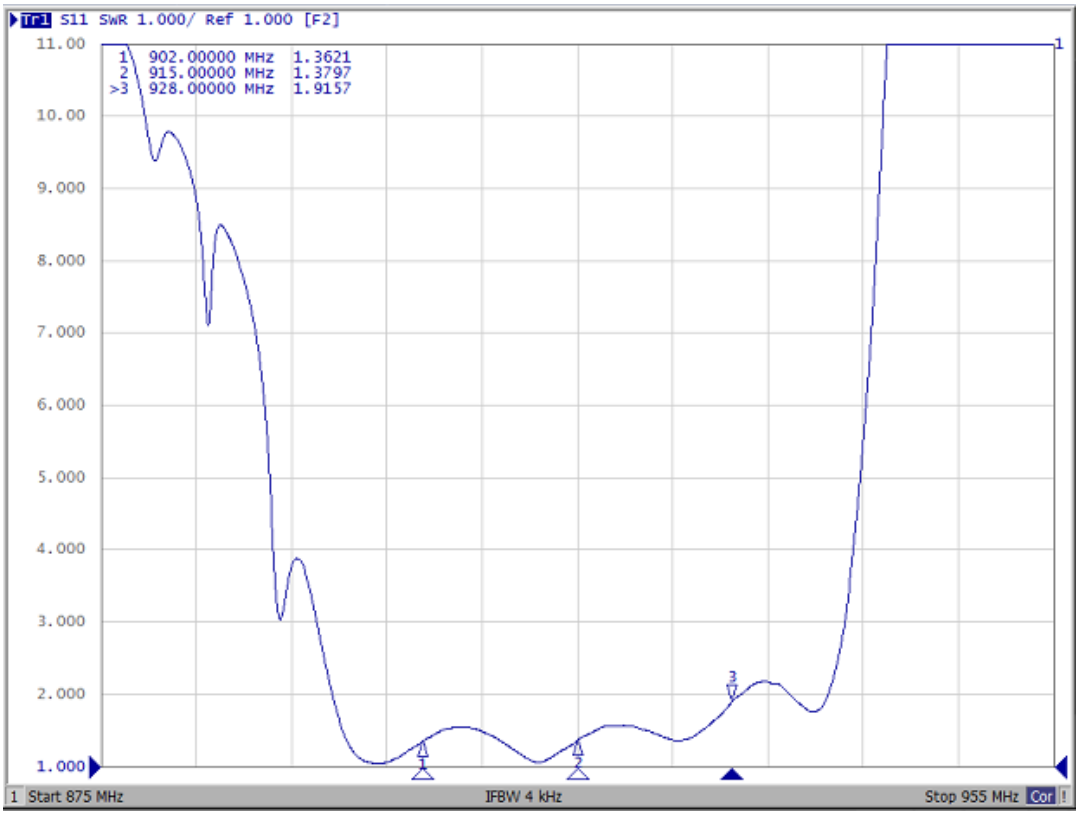


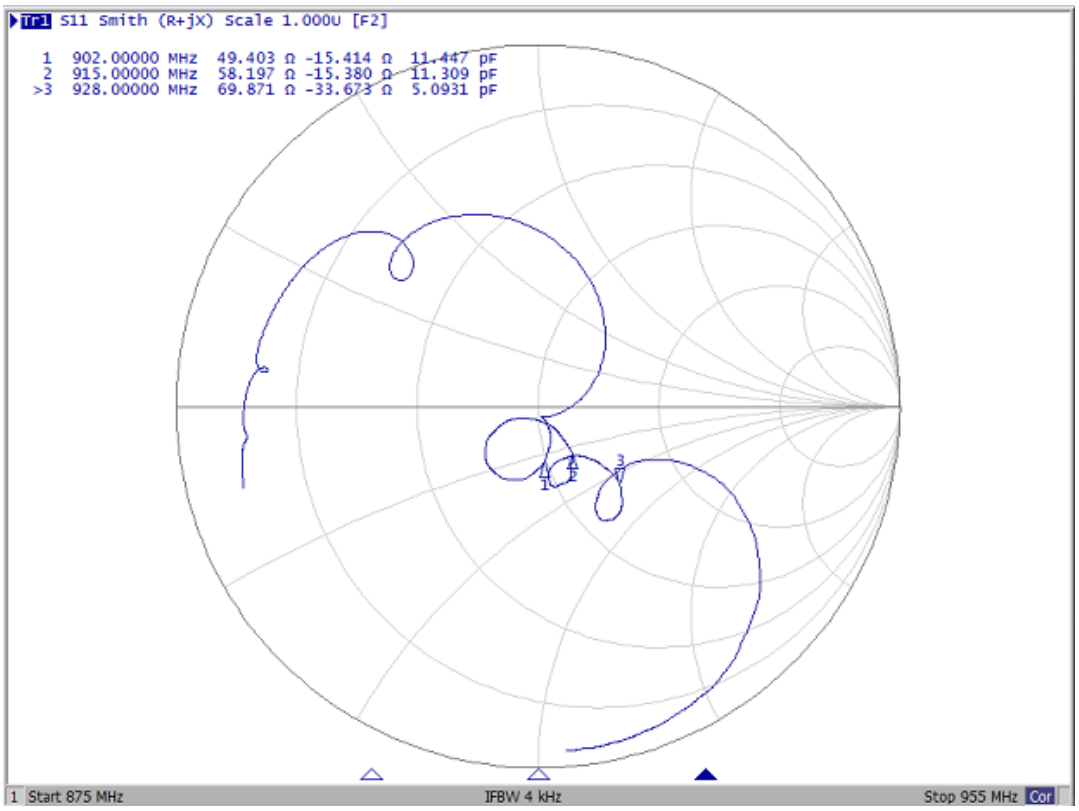




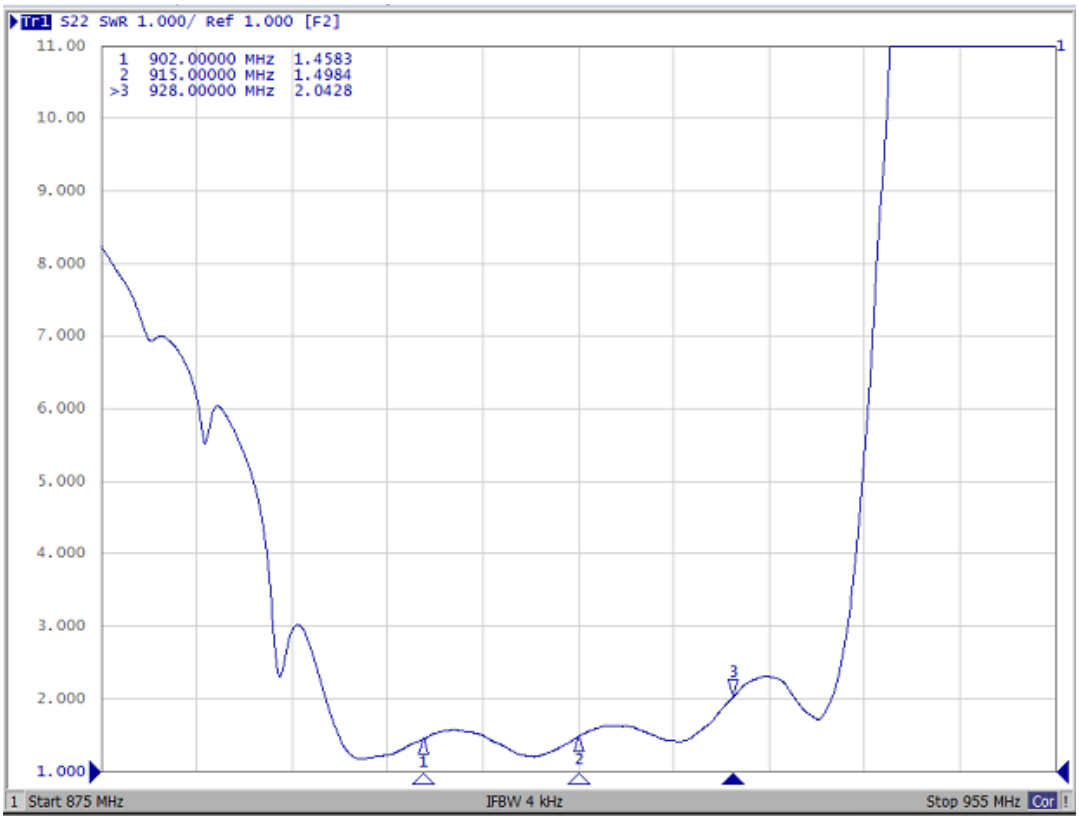
Reflection Functions :

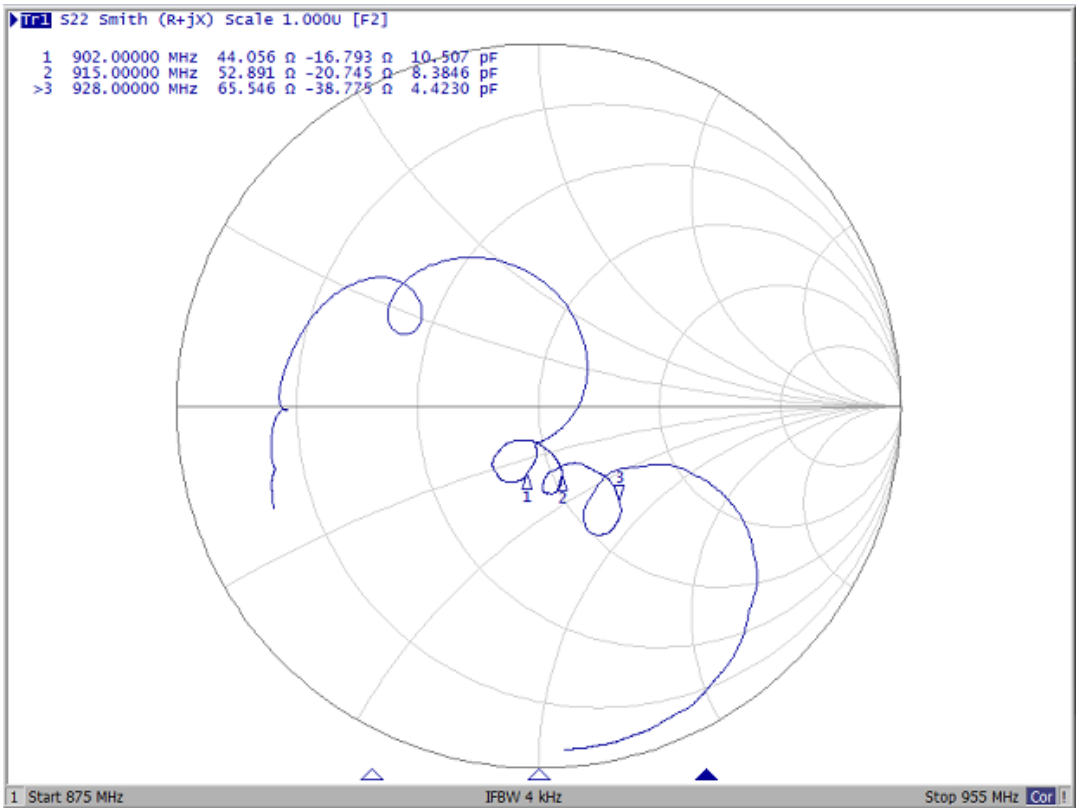
S11





S22

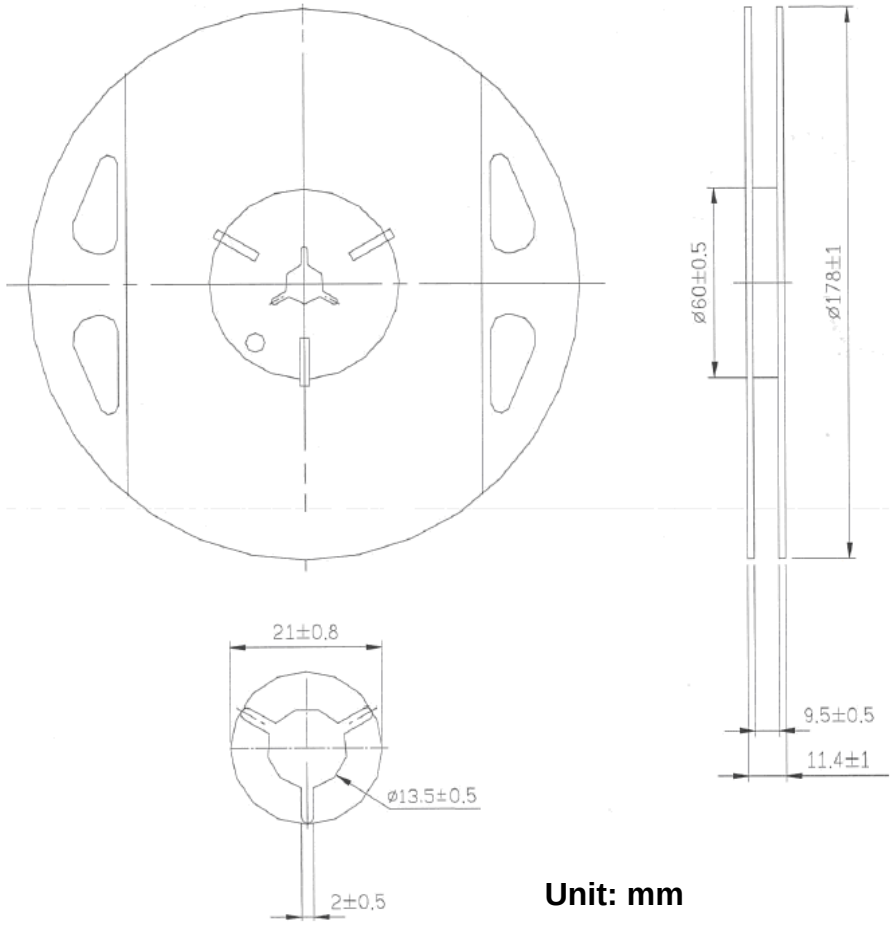

Tr1 S22 SWR 1.000/ Ref 1.000 [F2]
1 902.00000 MHz 1.4583
2 915.00000 MHz 1.4984
>3 928.00000 MHz 2.0428
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
1 Start 875 MHz
IFBW 4 kHz
Stop 955 MHz
Cor


Tr1 S22 Smith (R+jX) Scale 1.000U [F2]
1 902.00000 MHz 44.056 Ω -16.793 Ω 10.507 pF
2 915.00000 MHz 52.891 Ω -20.745 Ω 8.3846 pF
>3 928.00000 MHz 65.546 Ω -38.775 Ω 4.4230 pF
1 Start 875 MHz
IFBW 4 kHz
Stop 955 MHz
Cor

G. PACKING:

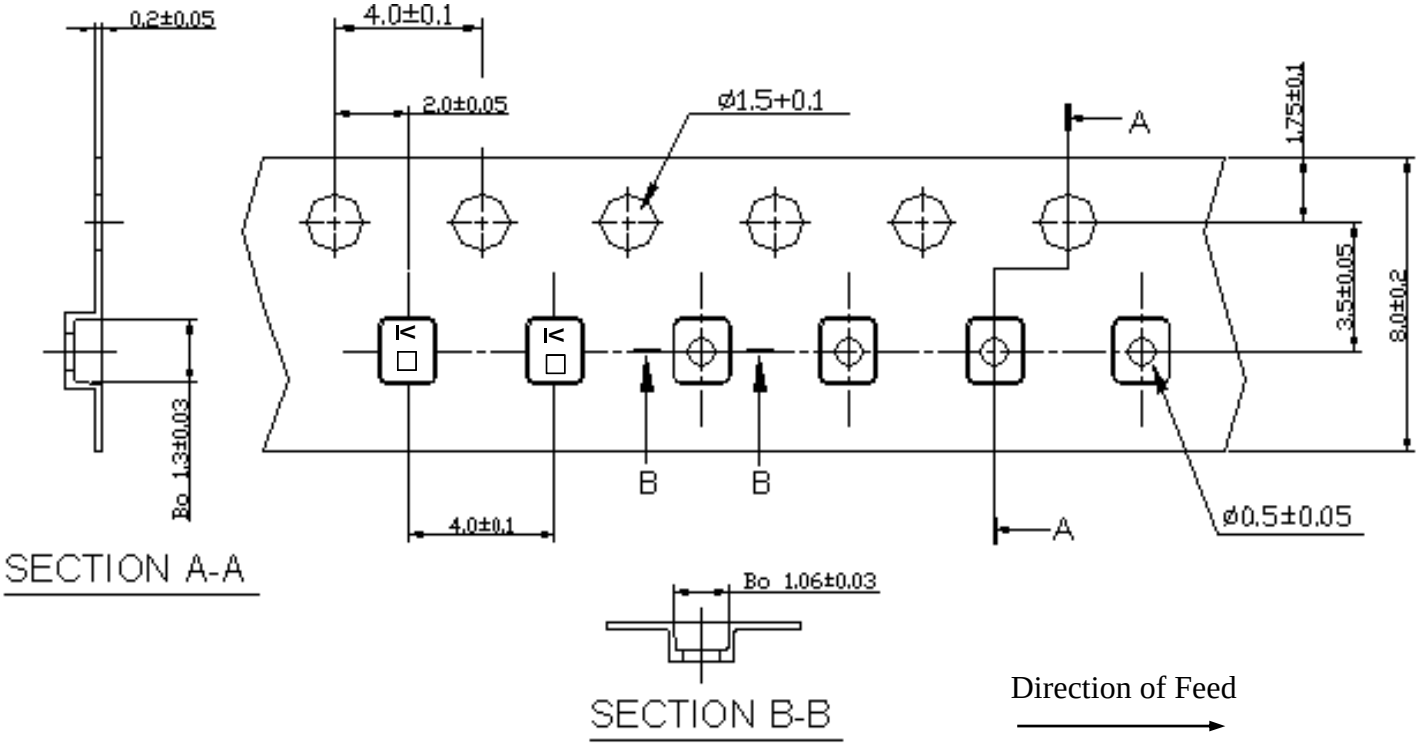
1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



Unit: mm

2.TAPE DIMENSIO



H. <u>RECOMMENDED REFLOW PROFILE:</u>

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time: 2 times.